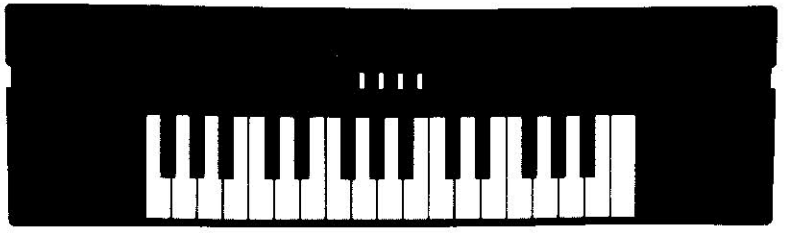
CASIO

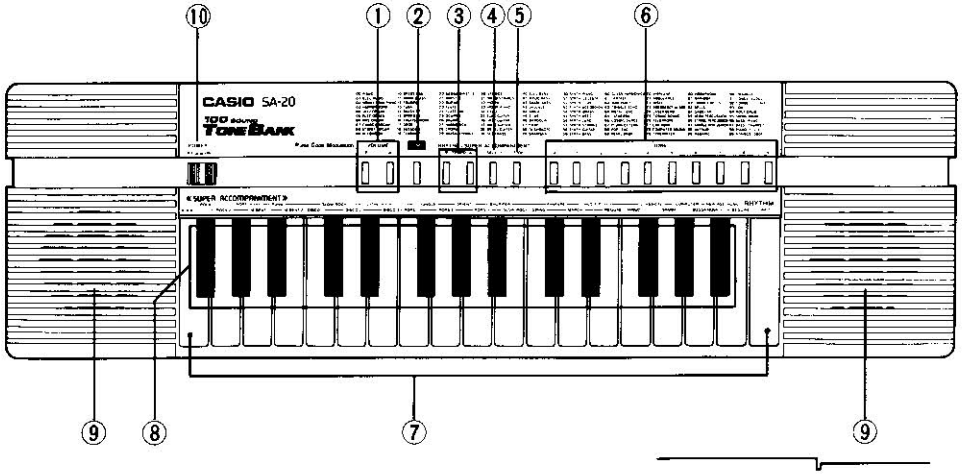
SA-20 100 SOUND TONE BANK

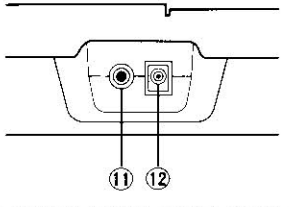


Operation Manual
Manual de Operación

SA05800005C Printed in Japan

Guide to each part





<Back panel>

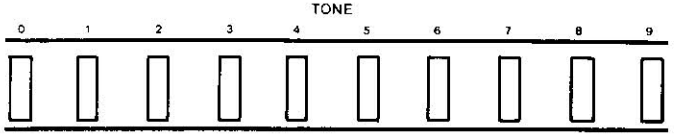
①Volume control buttons

Used to adjust the level of the volume. Pressing ▲ increases the volume of the sound, while ▼

Using preset tones

There are 100 preset tones to choose from. Each tone has a 2-digit number. To select a preset tone, find its preset tone number on the keyboard's top panel, and enter the number using the tone select buttons.

*"PIANO" tone (No. 00) is selected automatically whenever you switch the power of the keyboard ON.

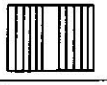
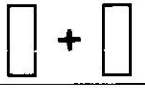
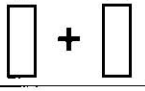


Example To select **"PIPE ORGAN"** (No. 06) after selecting **"JAZZ GUITAR"** (No. 36).

1) Set the **Power switch** to the **ON** position. At this time "PIANO" (No. 00) is selected automatically.

2) Press **Tone select buttons "3"** and then **"6"** to select "JAZZ GUITAR".

3) Press **Tone select buttons "0"** and then **"6"** to select "PIPE ORGAN".

Step	Press	Selected tone
1	POWER OFF — — ON 	No. 00 PIANO
2	3 + 6 	No. 36 JAZZ GUITAR
3	0 + 6 	No. 06 PIPE ORGAN

*You can also change the selected tone by pressing only one tone select button. Note the following:

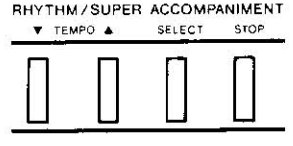
Selected tone ⇨	Press ⇨	Newly selected tone
No. 36	0	No. 60
No. 60	6	No. 06
No. 06	1	No. 61

NOTE

Some Tone Bank selections split the keyboard and assign two or four sounds to keyboard. Then, the sound produced depends on what position of the keyboard you play. For example, BASS/PIANO puts BASS on the left and PIANO on the right of the keyboard.

Using auto-rhythms

There are 19 preset rhythm patterns to choose from.



1) Press the **Select button**.

2) Press one of the **white keyboard keys**. And the auto-rhythm pattern labeled above the white key immediately starts to play.

①Volume control buttons
Used to adjust the level of the volume. Pressing ▲ increases the volume of the sound, while ▼ decreases volume. Volume can be set to one of 5 levels. This function does not operate while a sound is being produced. (Volume is set to its maximum level when power is switched ON.)

②DEMO button
Press this button to hear a preset demonstration tune.

③Tempo control buttons
Press to adjust the tempo of an auto-rhythm or a SUPER ACCOMPANIMENT pattern.

④Select button
Used when selecting one of the 19 auto-rhythms and the 13 SUPER ACCOMPANIMENT patterns. Press this button first, and then choose a rhythm or pattern by pressing a keyboard key.

⑤Stop button
Press to stop an auto-rhythm, a SUPER ACCOMPANIMENT pattern or demonstration tune.

⑥Tone select buttons
Press to select from among the 100 preset tones, which include instrumental sounds, percussion sounds and effect sounds.

⑦Rhythm select keys (White keyboard keys)
Press to select an auto-rhythm after pressing the select button.

⑧SUPER ACCOMPANIMENT select keys (Black keyboard keys)
Press to select a SUPER ACCOMPANIMENT pattern after pressing the select button.

⑨Built-in speakers

⑩Power switch

⑪Output jack
For connection of optional headphones, audio amplifier or keyboard amplifier. Connecting headphones automatically cuts speaker output.

⑫AC adaptor jack
For connection of optional AC adaptor (or car adaptor).

NOTE
A click (which is actually the Tone Bank "Typewriter") sounds whenever you press the volume control buttons, tempo control buttons, select button, or tone select buttons. This sound helps you confirm that your entry was properly registered. In this case of the volume control and tempo control buttons, if you press a button and the click does not sound, it means that the setting is already at its minimum or maximum.

•Demonstration Tune
A preset demonstration tune showcases all of the characteristic features and functions of the keyboard. Simply press the DEMO button ②, and listen to the keyboard plays itself!

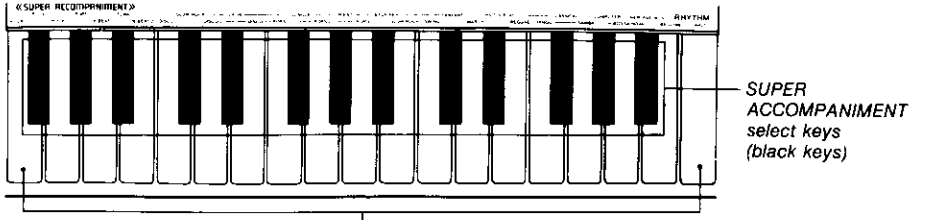
**The demonstration tune is played in an endless loop. Press the DEMO button again, or the stop button to stop the tune.*
**You cannot use the keyboard and adjust the tempo while the demonstration tune is playing.*
**You can adjust the level of volume but a click (Typewriter sound) doesn't sound.*

About the power supply

DC Power

•Dry batteries
This unit can be powered by five AA size (SUM-3/R6P) manganese dry cell batteries. Weakened batteries will result in lower volume or poor tonal quality. At this time, change batteries or shift to one

2) Press one of the **white keyboard keys**. And the auto-rhythm pattern labeled above the white key immediately starts to play.



3) Adjust the tempo using the **Tempo control buttons**. Each press of ▲ speeds up the tempo, while pressing ▼ slows it down.
*You can set the tempo level to one of 16 steps.

4) Play along with the selected rhythm pattern.

5) Press the **Stop button** to stop the auto-rhythm.

NOTE
You can change the auto-rhythm while it is playing by repeating steps 1) and 2) above.

Using SUPER ACCOMPANIMENT patterns

"SUPER ACCOMPANIMENT" patterns back up your melodies with full chord progressions, arpeggio patterns, sounds effects and more! There's 13 to choose from, including such standard fare as Rock, Latin & Pops, and more exotic patterns like Orient, New Age Music and Fanfare.

1) Press the **Select button**.

2) Press one of the **black keyboard keys**, and the SUPER ACCOMPANIMENT pattern labeled above the black key immediately starts to play.

3) Play along with the selected pattern.

4) Press the **Stop button** to stop the SUPER ACCOMPANIMENT play.

NOTE
You can change the SUPER ACCOMPANIMENT pattern while it is playing by repeating steps 1) and 2) above.

Care of your unit

(1) Avoid heat, humidity or direct sunlight.
Do not overexpose the unit to direct sunlight, or place near an air conditioner, or in any extremely hot place.

(2) Take care not to drop the unit and avoid strong shocks.
A strong shock may cause malfunctions. When carrying or transporting the unit, protect the keyboard and switches with soft materials.

(3) Keep the unit free of liquids, dust, etc.
Do not allow foreign matter to get between the keys. Be especially careful with metallic objects, such as hairpins, sewing needles, and coins. Also, do not let the unit get wet.

(4) Never attempt to modify any parts of the unit.
The unit is a precision instrument, made up of electronic parts. Any modification of, or tampering with inner parts may cause problems.

•Dry batteries

This unit can be powered by five AA size (SUM-3/R6P) manganese dry cell batteries. Weakened batteries will result in lower volume or poor tonal quality. At this time, change batteries or shift to one of the alternate power sources mentioned below.

To replace batteries

1) Open the battery compartment cover on the bottom of the unit and take out the used batteries.

2) Load new batteries taking care that the (+) and (−) poles are facing in the correct directions.

**It is advisable to replace all five batteries at the same time for longer battery life.*
**Standard battery life is approximately 5 hours.*
**If battery power drops below a certain level, the quality of the tone produced deteriorates, a totally different tone may sound, or the demo tune or auto rhythm may become abnormal. Should any of these symptoms occur, replace batteries as soon as possible.*

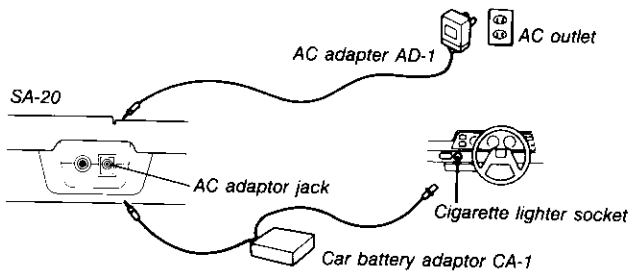
•Car battery

With the car battery adaptor (CA-1, optional) you can power the keyboard by plugging into the cigarette lighter socket of an automobile.

Precautions

Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the unit. Note the following precautions:

*Be sure that the positive (+) and negative (−) poles of each battery are facing in the proper direction.
*Never mix batteries of different types.
*Never mix old batteries and new ones.
*Never leave dead batteries in battery compartment.
*Remove batteries if you do not plan to use the unit for long periods.
*Replace batteries at least once every 2 years, no matter how much the unit is used during that period.
*Never try to recharge the batteries supplied with the unit.
*Do not expose the batteries to direct heat, let them become shorted, or try to take them apart.
*Should a battery leak, clean out the battery compartment of the unit immediately, taking care to avoid letting the battery fluid come into direct contact with your skin.



AC Power

An AC adaptor (AD-1, optional) is required when using household current. Use only a genuine CASIO adaptor with the same voltage rating (100, 117, 220 or 240V) as the power supply in your area to prevent damage to the keyboard's internal components. Plug the AC adaptor into the AC outlet and the cord into the unit. This will automatically cut off the battery power supply.

**Use only genuine CASIO adaptors to avoid risk of damage.*
**The adaptor may become warm when left connected to an outlet. This is normal, but the adaptor should be disconnected when not in use.*

(4) Never attempt to modify any parts of the unit.

The unit is a precision instrument, made up of electronic parts. Any modification of, or tampering with inner parts may cause problems.

(5) Do not apply lacquer, thinner or similar chemicals.

Clean the keyboard with a soft cloth dampened with detergent. (Soak the cloth in a detergent and squeeze until almost dry.)

(6) Don't forget to turn off the power switch.

After using the unit, be sure to turn off the power switch. If the unit is left for many hours with the power switch turned on, trouble or accidents may occur. Also when not using the unit for a long period, remove the batteries to avoid corrosion from battery leakage.

Specifications

Number of keys: 32 keys (mini)

Polyphonic: 4-note polyphonic

Preset tones: 100

Auto-rhythms:
19; ROCK 1-2, 16 BEAT 1-2, DISCO 1-3, POPS 1-3, SLOW ROCK, SWING, MARCH, REGGAE, TANGO, SAMBA, BOSSA NOVA, BEGUINE, WALTZ

Super Accompaniment Patterns:
13; ROCK, POPS, FUNK, SLOW ROCK, LATIN, JUNGLE, ORIENT, BAGPIPER, FANFARE, CHILD'S PLAY, CLASSICAL, COMPUTER, NEW AGE MUSIC

Built-in speakers: 8 cm dia. × 2 (output = 0.5W + 0.5W)

Terminals:
Output jack [output impedance: 100Ω, output voltage: 2.0V (RMS) MAX], AC adaptor jack (DC 7.5V)

Demonstration tune: "Wake me up before you go go"

Power source: 3-way AC/DC power sources;
AC: 100, 117, 220 or 240V (±10V), 50/60 Hz, with AC adaptor AD-1 (optional).
DC: 5 AA size (SUM-3/R6P) manganese dry batteries.
*Battery life: approx. 5 hours.
Car battery: Requires optional CA-1 car adaptor

Power consumption: 1.6W

Dimensions (W × D × H): 598 × 172 × 54 mm (23 9/16" × 6 3/4" × 2 1/8")

Weight: 1.2 kg (2.6 lbs)

Standard accessory: Test batteries supplied.

**Design and specifications are subject to change without notice.*

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).
This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

..... reorient the receiving antenna
..... relocate the equipment with respect to the receiver
..... move the equipment away from the receiver
..... plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

WARNING:
CHANGING THE VOLTAGE SELECTOR MAY REQUIRE THE USE OF A DIFFERENT LINE CORD OR ATTACHMENT PLUG, OR BOTH. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.